

**Table S1** Raw data, including sample ID, type and location of sample, and *Salmonella* and *E. coli* most probable number (MPN)

Sample ID	Farm	Map code	Sample type	Sample location	<i>Salmonella</i>	<i>E. coli</i>
					(MPN 100 ml <sup>-1</sup> )	(MPN 100 ml <sup>-1</sup> )
P10H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.1653	4724.7
P12H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.2025	57940.0
P2H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.0274	547.5
P4H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.0274	4838.4
P6H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.0274	4838.4
P8H	Farm_1	Farm_1_A1	Runoff from fields	Peanut field	0.1742	7270.0
P10K	Farm_1	Farm_1_A2	Runoff from fields	Tomato field	0.0274	19862.8
P12K	Farm_1	Farm_1_A2	Runoff from fields	Tomato field	0.0638	155307.0
P6K	Farm_1	Farm_1_A2	Runoff from fields	Tomato field	0.0562	40.2
P10E	Farm_1	Farm_1_F1	Runoff from forests	Forested yard	0.0548	1235.9
P12E	Farm_1	Farm_1_F1	Runoff from forests	Forested yard	0.4843	5005.2
P2E	Farm_1	Farm_1_F1	Runoff from forests	Forested yard	0.0274	91.0
P4E	Farm_1	Farm_1_F1	Runoff from forests	Forested yard	0.0274	107.9
P6E	Farm_1	Farm_1_F1	Runoff from forests	Forested yard	0.0274	2942.5
P10F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.7385	1060.2
P12F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.2025	12996.5
P2F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.0274	435.2
P4F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.0638	585.8
P6F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.0638	4838.4
P8F	Farm_1	Farm_1_F2	Runoff from forests	Pine forest	0.0274	24192.0
P10G	Farm_1	Farm_1_F3	Runoff from forests	Mixed forest	11.0000	24192.0
P12G	Farm_1	Farm_1_F3	Runoff from forests	Mixed forest	11.0000	2607.0
P2G	Farm_1	Farm_1_F3	Runoff from forests	Mixed forest	0.1332	24.6
P4G	Farm_1	Farm_1_F3	Runoff from forests	Mixed forest	0.0274	
P8G	Farm_1	Farm_1_F3	Runoff from forests	Mixed forest	0.0274	457.2
P10B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	0.5604	161.5
P12B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	2.3982	15.9
P2B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	0.0274	365.4
P4B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	0.0274	41
P6B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	0.0274	30.9
P8B	Farm_1	Farm_1_P1	Pond after storms	Pond at intake	0.1581	57.6
P10A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.0638	47.8
P12A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.2448	24.3
P2A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.0274	12.8
P4A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.0274	3.6
P6A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.0274	2.0
P8A	Farm_1	Farm_1_P1	Pond before storms	Pond at intake	0.0274	0.5
P10D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	0.0274	224.7
P12D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	10.9895	104.6
P2D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	0.0274	275.5
P4D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	0.0638	39.9
P6D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	0.2555	47.1
P8D	Farm_1	Farm_1_P2	Pond after storms	Pond edges	0.1332	73.3
P10C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0274	91.2
P12C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0274	325.5
P2C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0274	14.6
P4C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0274	3.1
P6C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0562	2.0
P8C	Farm_1	Farm_1_P2	Pond before storms	Pond edges	0.0562	3.1
P10I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	0.4843	2065.8
P12I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	0.9857	301.8
P2I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	0.5604	686.7
P4I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	0.9857	46.1
P6I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	0.5136	585.7

P8I	Farm_1	Farm_1_S1	Storm flow from streams	Stream	1.5005	37.3
P10J	Farm_1	Farm_1_S2	Storm flow from streams	Road ditch	0.5083	2454.7
P12J	Farm_1	Farm_1_S2	Storm flow from streams	Road ditch	0.3713	14136.0
P6J	Farm_1	Farm_1_S2	Storm flow from streams	Road ditch	0.3725	4838.4
P11E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0274	1479.5
P1E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0274	44.3
P3E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0274	141.4
P5E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0274	1355.6
P7E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0638	4838.4
P9E	Farm_2	Farm_2_A1	Runoff from fields	Biofuel field	0.0638	8734.5
P11I	Farm_2	Farm_2_A2	Runoff from fields	Peanuts/cotton	0.0274	24192.0
P1I	Farm_2	Farm_2_A2	Runoff from fields	Peanuts/cotton	0.0274	28.5
P3I	Farm_2	Farm_2_A2	Runoff from fields	Peanuts/cotton	0.0274	648.8
P9I	Farm_2	Farm_2_A2	Runoff from fields	Peanuts/cotton	0.0274	94.1
P11F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0274	4838.4
P1F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0274	435.2
P3F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0548	2419.2
P5F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0274	1293.7
P7F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0274	1012.6
P9F	Farm_2	Farm_2_F1	Runoff from forests	Shrubland	0.0274	189.6
P11G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0274	483.1
P1G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0274	2419.2
P3G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0274	727.0
P5G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0274	40.7
P7G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0274	615.2
P9G	Farm_2	Farm_2_F2	Runoff from forests	Mixed forest	0.0562	4838.4
P11B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.0274	4.1
P1B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.0638	71.2
P3B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.0274	9.8
P5B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.9857	7.2
P7B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.2555	7.4
P9B	Farm_2	Farm_2_P1	Pond after storms	Pond at intake	0.0274	14.3
P11A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0274	86.0
P1A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0274	5.8
P3A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0274	8.6
P5A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0274	2.5
P7A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0638	0.5
P9A	Farm_2	Farm_2_P1	Pond before storms	Pond at intake	0.0274	2.5
P11D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	0.0548	7.4
P1D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	0.0274	44.8
P3D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	0.0274	24.0
P5D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	1.5005	8.4
P7D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	0.1581	0.5
P9D	Farm_2	Farm_2_P2	Pond after storms	Pond edges	0.1581	48.8
P11C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.0274	33.5
P1C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.0638	6.3
P3C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.0274	
P5C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.3713	7.4
P7C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.0274	4.1
P9C	Farm_2	Farm_2_P2	Pond before storms	Pond edges	0.0562	2.0
P9J	Farm_2	Farm_2_S	Storm flow from streams	Stream	10.9895	19862.8
P11J	Farm_2	Farm_2_S	Storm flow from streams	Stream	0.2025	3974.2
P7J	Farm_2	Farm_2_S	Storm flow from streams	Stream	0.2555	3195.9